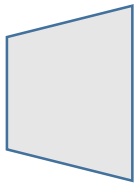
EMC3@FTBF 2/2017

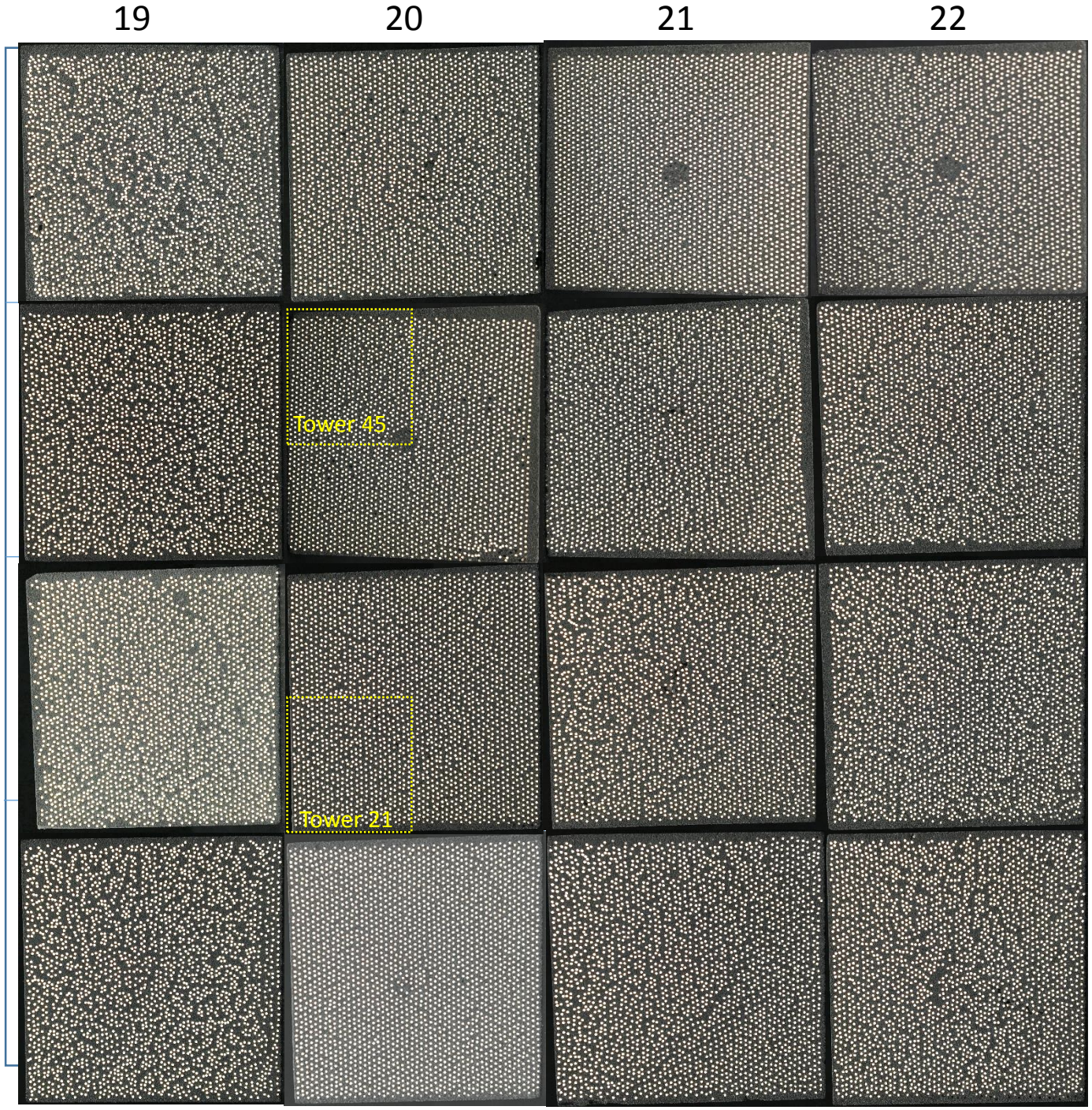
Images of fibers in blocks

Readout (small) end

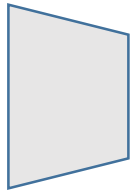


- This shows a photo collage of the of the blocks that were in the EMC3 prototype.
  (The collage of square images makes the gaps between blocks appear larger than they actually are.)
- All blocks were drilled and tapped before assembly into the prototype.

Block ID#:	19-1	20-4	21-2R	22-4R
Density (g/cc):	10.07	9.74	10.08	9.92
	19-2	20-3R	21-1	22-2
	10.00	10.09	9.83	9.73
	19-4	20-1	21-3	22-3
	9.85	9.74	9.61	9.80
	19-3	20-2	21-4	22-1
	9.92	9.63	9.78	9.78



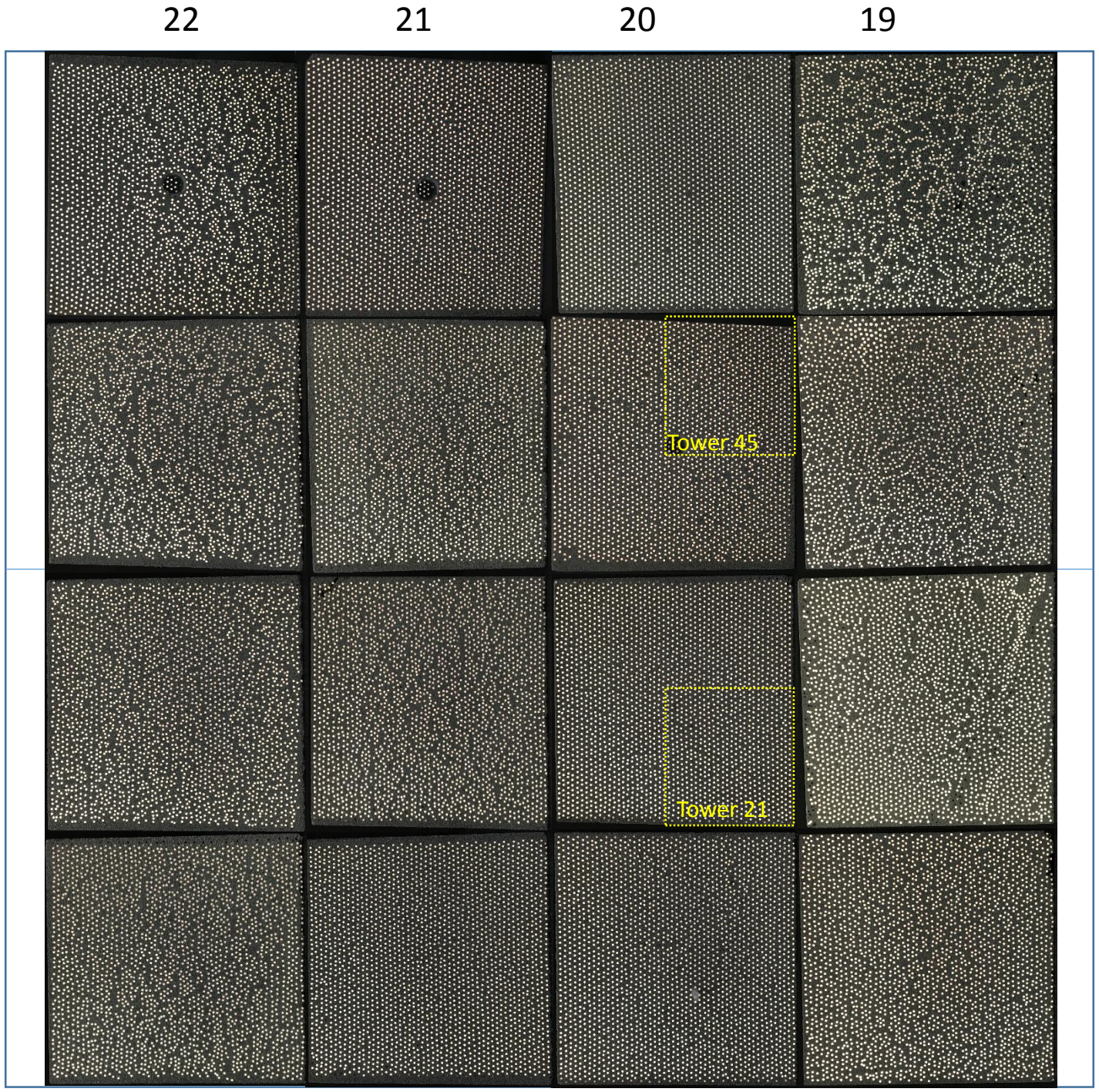
Reflector (large) end

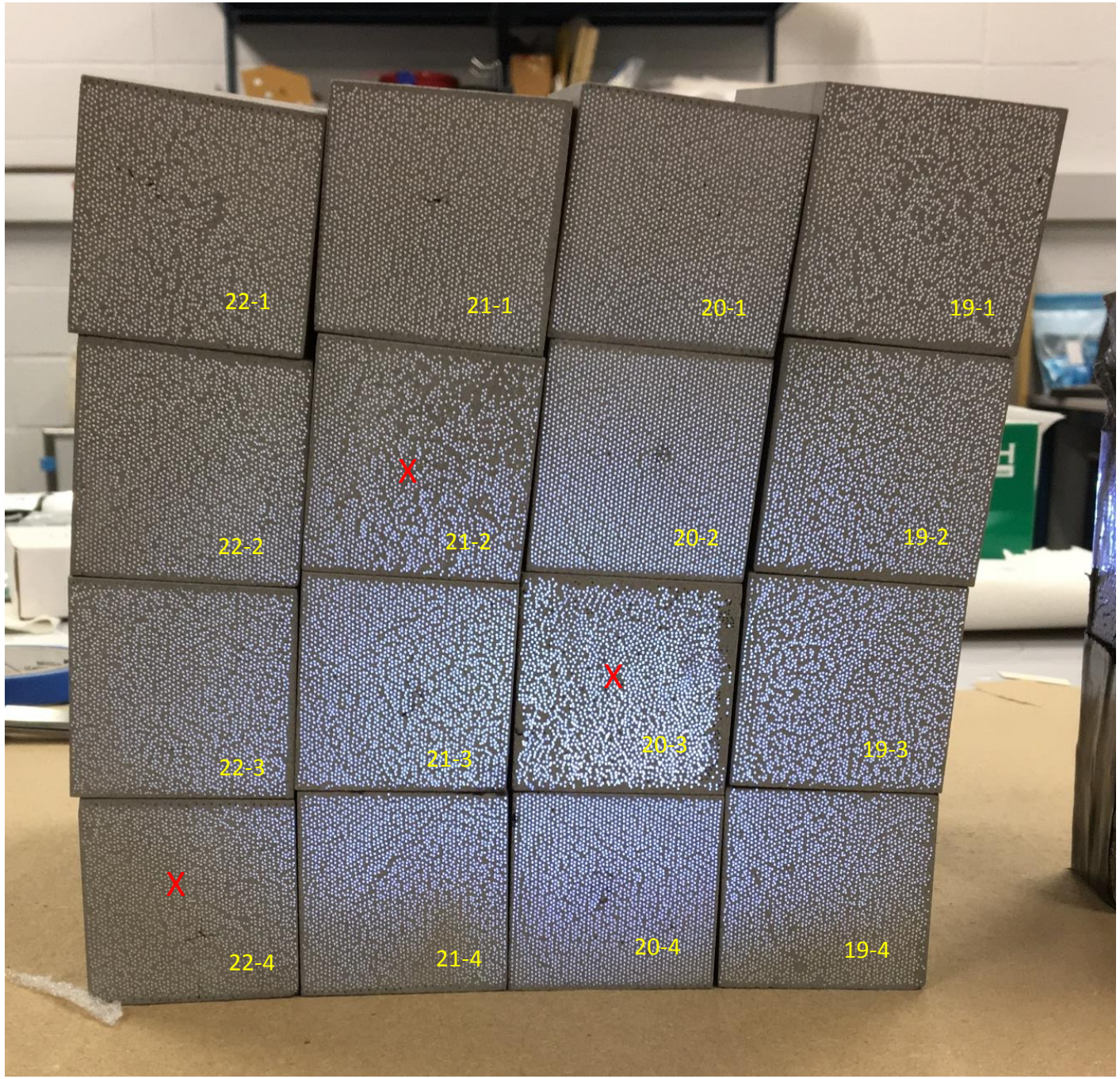


- This shows a photo collage of the of the blocks that were in the EMC3 prototype.
  (The collage of square images makes the gaps between blocks appear larger than they actually are.)
- All blocks were drilled and tapped before assembly into the prototype.

looking at reflector end

Block ID#:				
Density (g/cc):	22-4R	21-2R	20-4	19-1
	9.92	10.08	9.74	10.07
	22-2	21-1	20-3R	19-2
	9.73	9.83	10.09	10.00
	22-3	21-3	20-1	19-4
	9.80	9.61	9.74	9.85
	22-1	21-4	20-2	19-3
	9.78	9.78	9.63	9.92



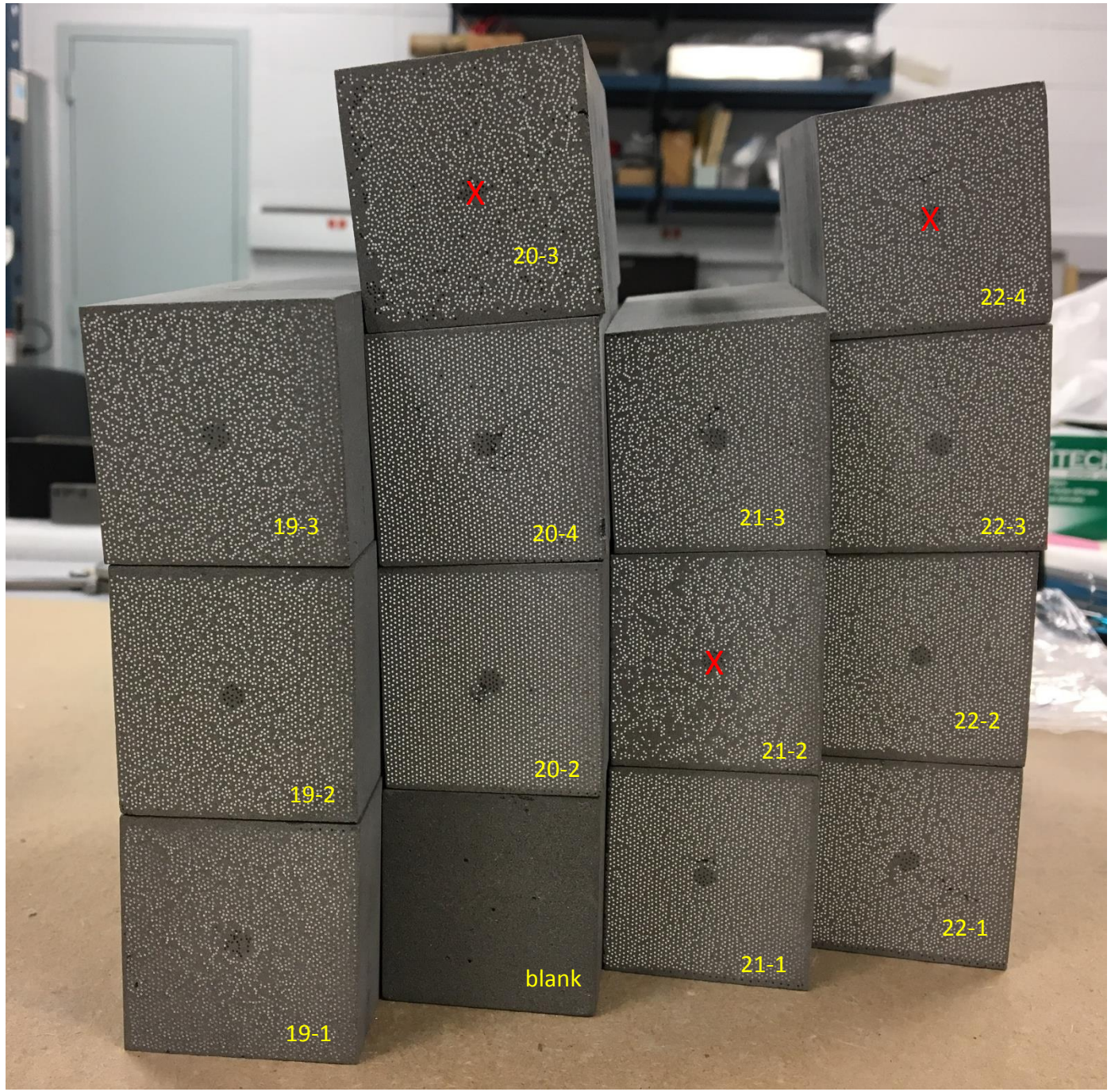


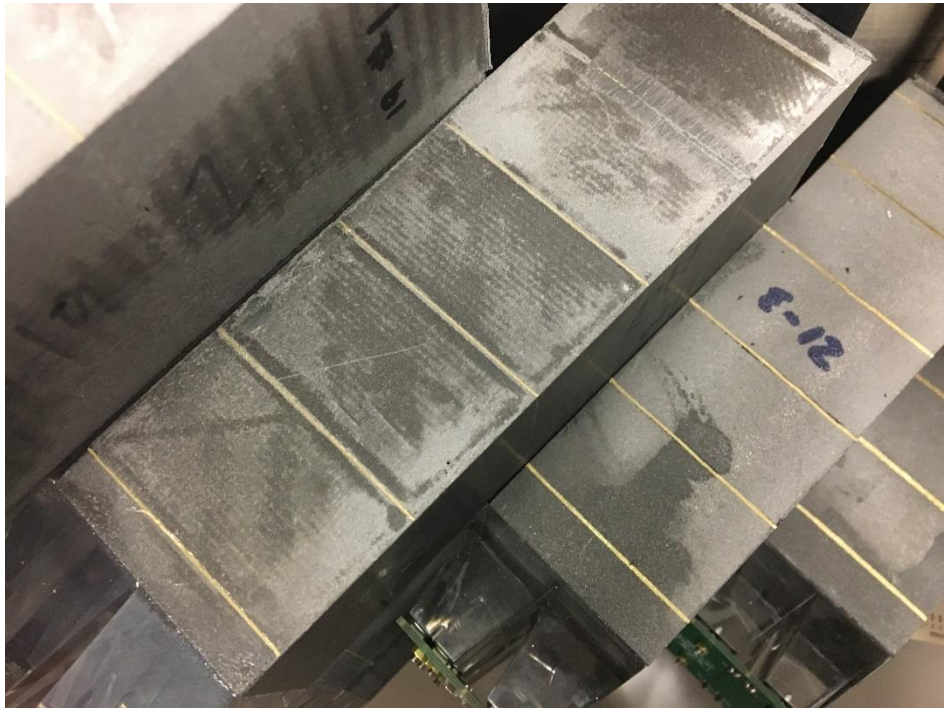
Initial “square” stack-up of blocks

- Block positions were re-arranged in final stack
- Blocks marked with “X” were later replaced
  - 20-3 (non-uniform fibers)
  - 21-2 (non-uniform fibers)
  - 22-4 (lowest density: 9.56 g/cc)

Initial staggered stack-up of drilled/tapped blocks

- Block positions were re-arranged in final stack
- Blocks marked with "X" were replaced
  - 20-3 (non-uniform fibers)
  - 21-2 (non-uniform fibers)
  - 22-4 (lowest density: 9.56 g/cc)



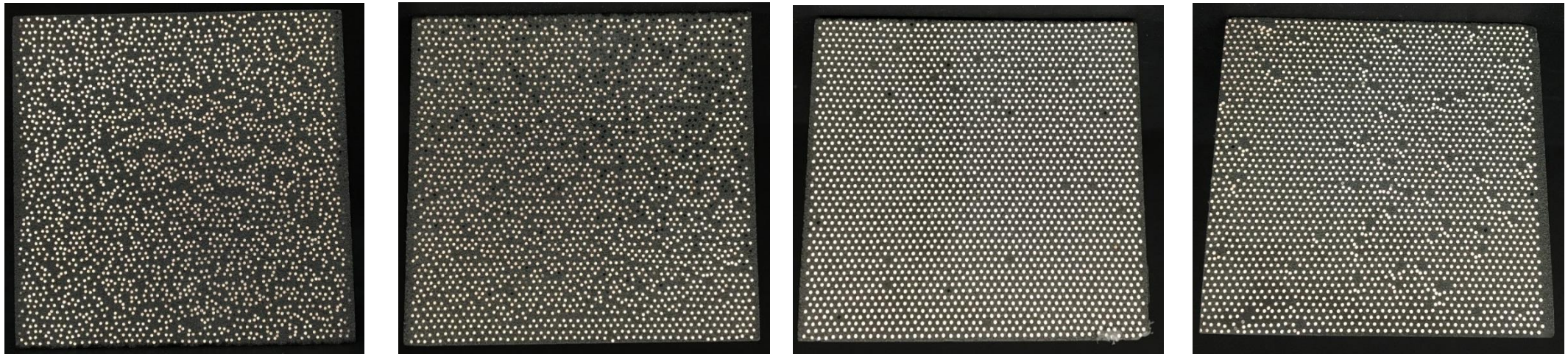
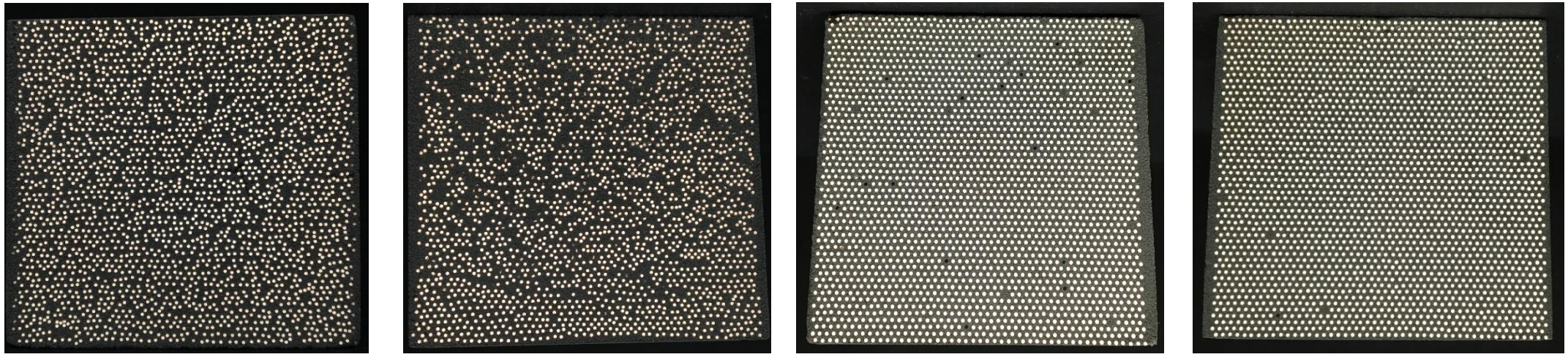


EMC4 Prototype

	EMC4			
block #	22-4	21-2	19-SG2	19-SG1
density (g/cc)	9.56	9.75	9.11	9.23

22-4 | 21-2 | 19-SG1 | 19-SG2

Wide end



Narrow end